UNITED NATIONS CONFERENCE ON TRADE AND DEVELOPMENT

UNCTAD

MULTI-YEAR EXPERT MEETING ON TRADE, SERVICES AND DEVELOPMENT

Geneva, 11–13 May 2015

BEST PRACTICES FOR TOOLKIT: TELECOMMUNICATIONS AND IT

SESSION 6

UNITED NATIONS
UNCTAD

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Best Practices For Toolkit

- *Telecommunications and IT*

Dr Bilel Jamoussi,
Chief, Study Groups Department,
Telecommunication Standardization Bureau (TSB)
ITU

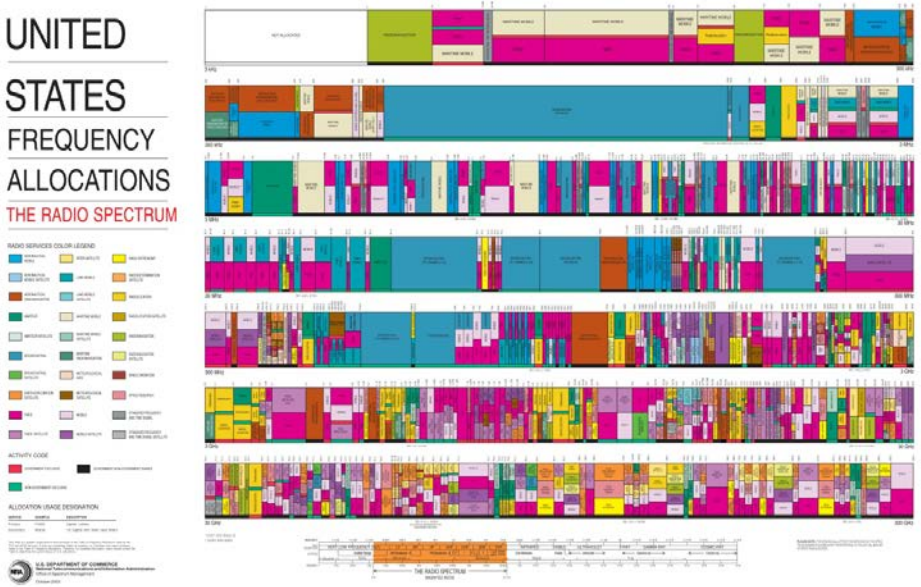
Presentation at UNCTAD, 13 May 2015

ITU is the specialized agency of the UN for telecommunications and ICTs …

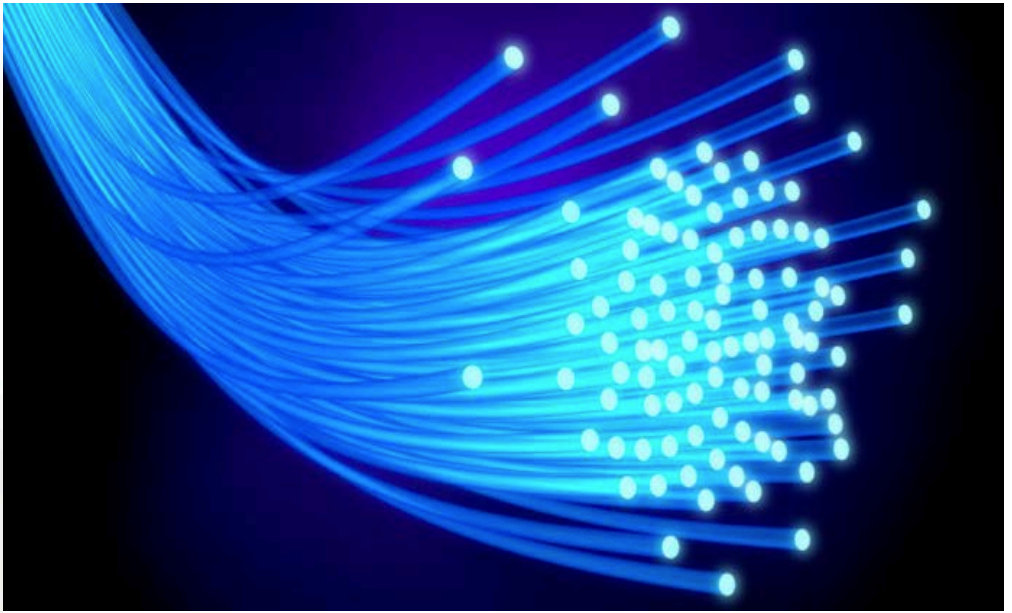
… and turns 150 years in 2015

Theme for all year celebrations:
“Telecommunications and ICTs: drivers of innovation”

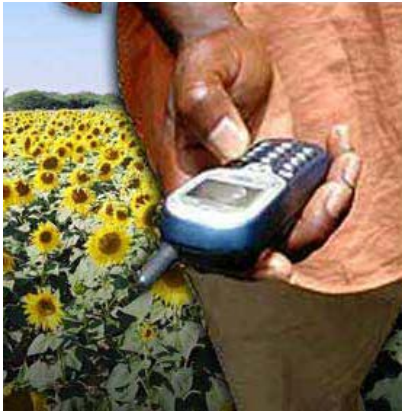
ITU allocates (1) frequency spectrum to different services, (2) satellite orbit assignments, (3) numbers and identifiers

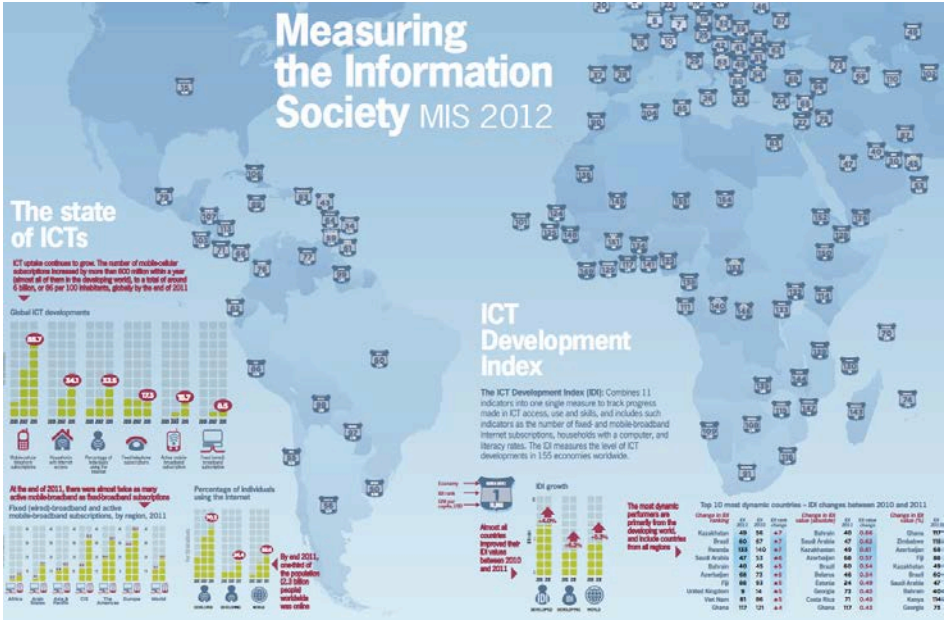


ITU develops standards



ITU assists developing countries in building up their ICT infrastructure





ITU's Membership: Public-private partnership

- 193 **Member States** and Regulatory Bodies
- 750 **Sector Members** (Companies, Business Associations, NGOs)

  The European Union is a Sector Member since 1988

- 90+ **Academia** (Universities & Research Establishments)

(as of May 2015)

ITU-T Study Groups

- (2) Operational aspects
- (3) Economic and policy issues
- (5) Environment and climate change
- (9) Broadband cable and TV
- (11) Protocols and test specifications
- (12) Performance, QoS and QoE
- (13) Future networks (incl. cloud)
- (15) Transport and access
- (16) Multimedia
- (17) Security

ITU-T Focus Groups

Augment the Study Group system

- Way to quickly react to ICT standardization needs
- Great flexibility of working methods
- Open to non-member participants

Current Focus Groups:

1. 5G
2. Aviation applications of cloud computing for flight data monitoring
3. Digital financial services
4. Smart sustainable cities
5. Bridging the gap: from innovation to standards
6. Smart water management

TELECOMMUNICATIONS & IT

Pervasive Nature Of ICTs

Emergency

Education

Health

Agriculture

Governance

Investment

Applications

Policy & Regulation

Capacity Building

Transport

Sensor Networks

Universal Broadband

Green ICT & E-Waste

Measurements

Electricity

Privacy & Security

Infrastructure Security

Water

Digital Inclusion

SMART SUSTAINABLE CITIES

Spectrum Management

Standards, Conformity & Interoperability

Finance & Payment

Work of ITU

DISRUPTIVE TECHNOLOGIES

- IP Convergence
- Cloud Computing
- Internet of Everything
- Digital Finance / Virtual Currency
- E-health
- Wearables
- 5G

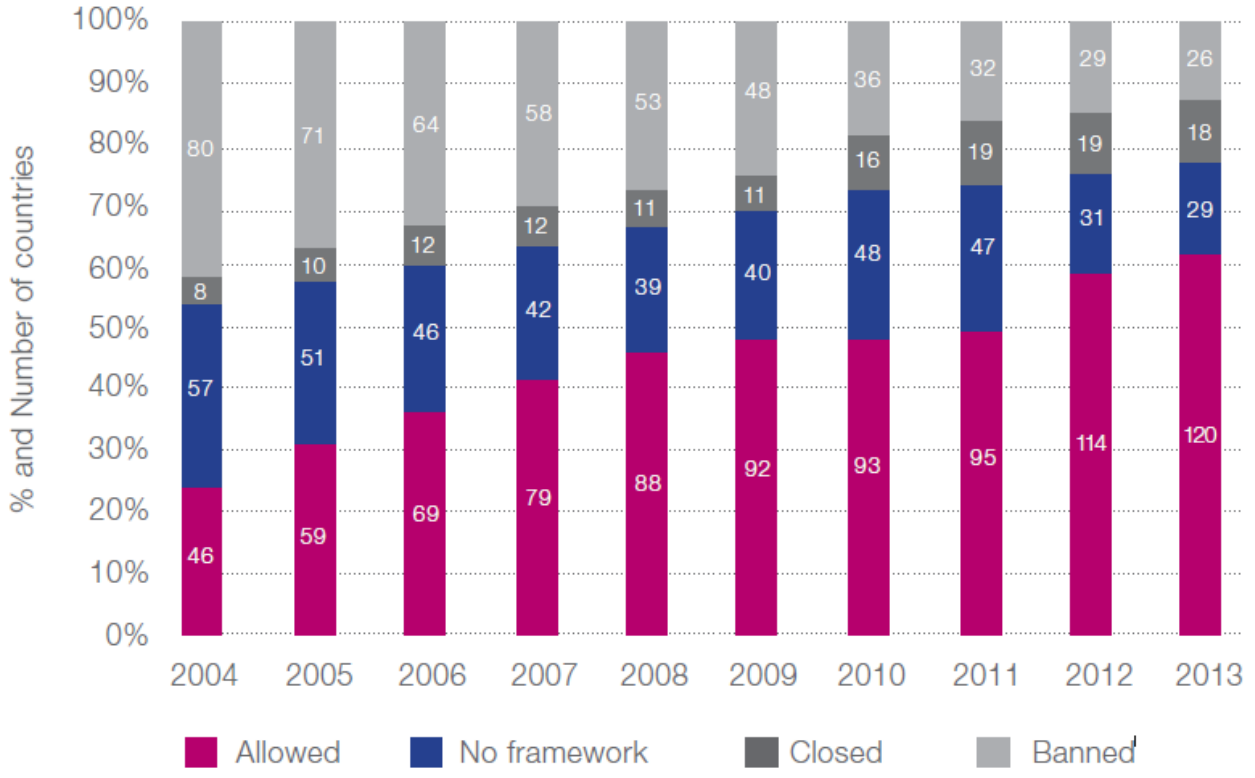
Will redefine business models for the industry

EXPLOSIVE GROWTH OF DATA

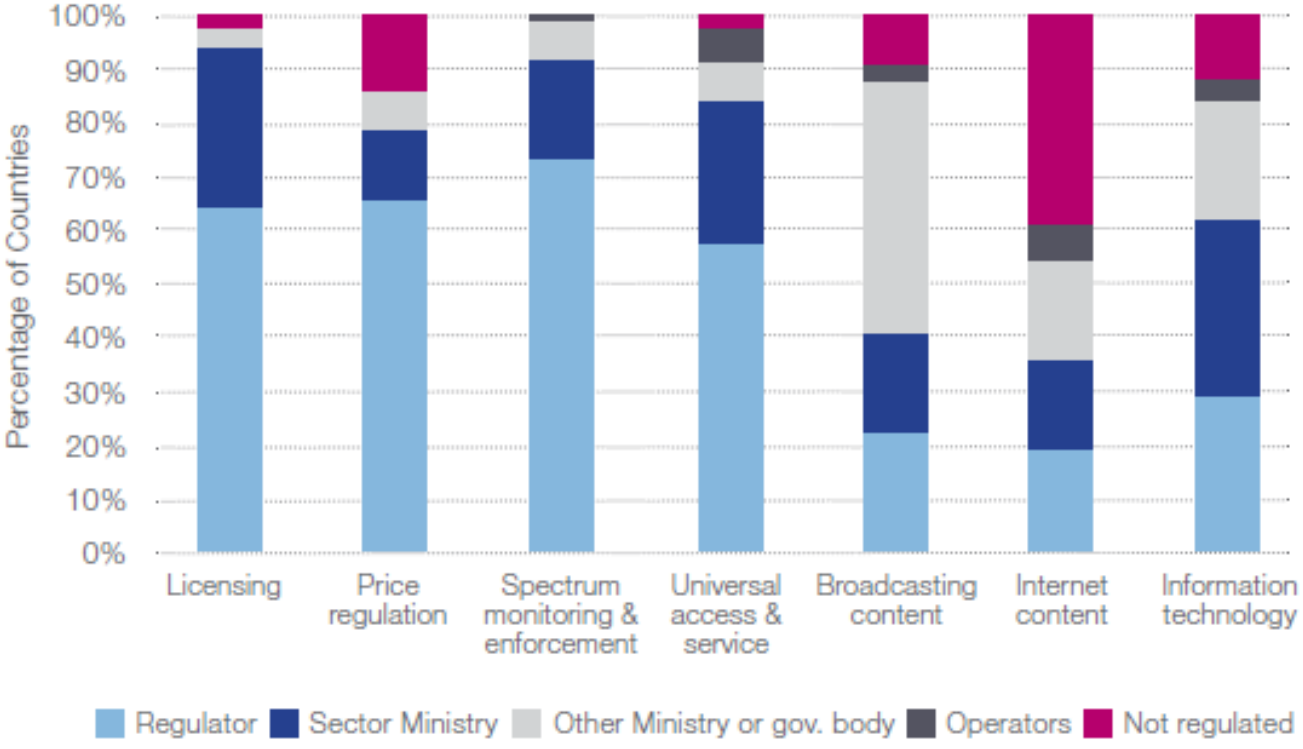
Key Drivers:

- IP enabled networks are at the core.
- Billions more people, things, places, processes and devices will come online.
- Extensive digitization of information.
- Internet Protocol version 6 (IPv6)

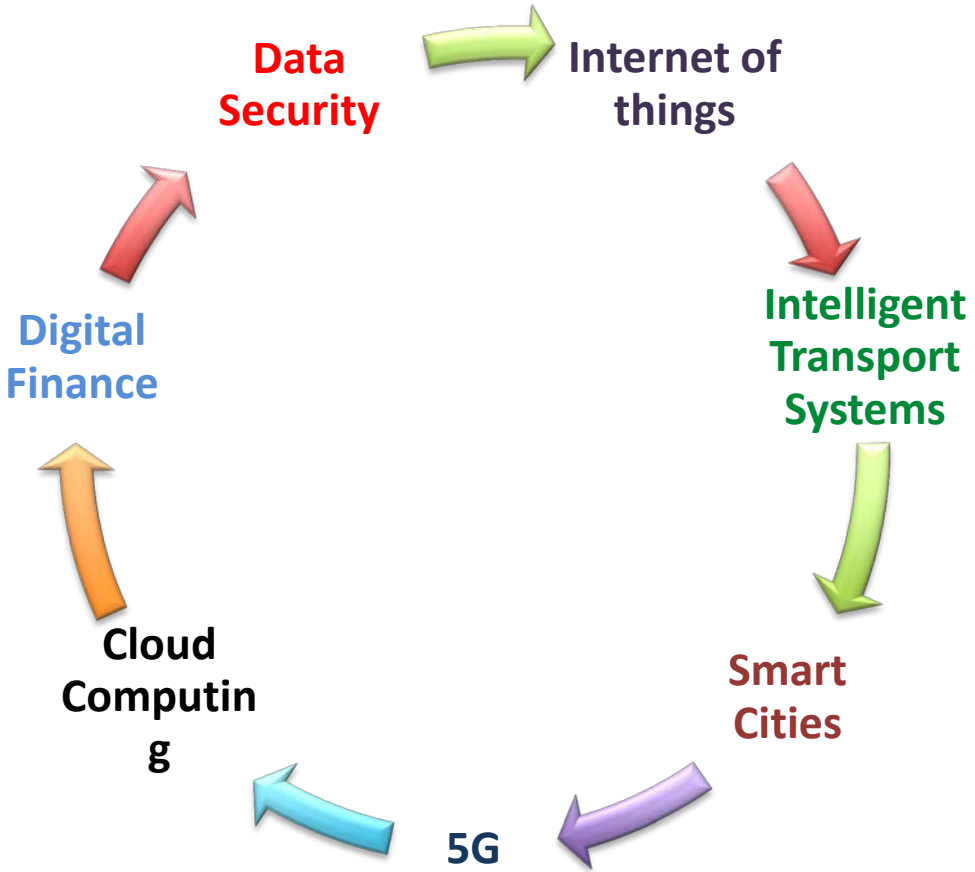
Trend of IP Enabled Regulation



ICT Regulation: Who regulates what?



EMERGING STANDARDS IN ICT



REGULATORY BEST PRACTICES

- Adopt a “light-touch” regulatory approach and in favour of innovation
- Ensure principles of fair, equal and non-discriminatory treatment of all market players
- Streamline procedures to facilitate market entry and stimulate competition and innovation;
- Conduct market analysis to assess the market situation in a converged environment;
- Adopt a regulatory framework that eliminates barriers to new entrants;

REGULATORY BEST PRACTICES

- Level playing field for market stakeholders (operators, Internet providers, OTT providers, etc.);
- Empower consumers to make informed decisions through the development of online tools to check download speeds, quality-of service and prices for access and data plans;
- Monitor the use of traffic management techniques to ensure they do not unfairly discriminate between market players;
- Ensure transparency and openness (e.g. by making market data and regulations available).

REGULATORY BEST PRACTICES

- Encourage network and facility sharing through “soft” measures (e.g. cross-sector mapping of infrastructure that enables the coordination of civil works).
- Encourage multi-stakeholder consultation on policy and regulatory matters;
- Continue to ensure regulatory predictability and foster co-regulation wherever possible; and
- Work with all stakeholders to reduce or remove practical barriers to broadband deployment.

CRITICAL SUCCESS FACTORS

- Policy and regulatory framework for broadband deployment
- E-government strategy
- National Cybersecurity Strategy
- Policy and Strategy for ICT Standards and Innovation
- Policy and regulatory framework for data protection

Thank You

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